Amendments to the Claims:

1. (canceled)

2. (currently amended) The optical pulse source of claim ~~1~~ 11 wherein the feedback circuit adjusts the shape of pulses passing through the filter to produce RZ pulses.

3. (currently amended) The optical pulse source of claim ~~1~~ 11 wherein the light source comprises a distributed feedback laser.

4. (currently amended) The optical pulse source of claim ~~1~~ 11 wherein the Bragg grating is coupled to the source by polarization maintaining optical fiber.

5. (currently amended) The optical pulse source of claim ~~1~~ 11 wherein the Bragg grating comprises a fiber Bragg grating stabilized by disposition in a controlled temperature environment.

6. (currently amended) The optical pulse source of claim ~~1~~ 11 wherein the Bragg grating is tunable.

7. (canceled)

8. (canceled)

9. (canceled)

10. (currently amended) The optical pulse source of claim ~~1~~ 11 wherein the light source comprises a temperature adjustable distributed feedback laser and the feedback circuit comprises an electronic circuit responsive to the tapped signals for adjusting the temperature of the laser.

11. (new) An optical pulse source to generate RZ pulses at a wavelength λ comprising:

a modulated light source for generating optical pulses of light over an optical spectrum including λ, the source modulated in power and frequency;

a Bragg grating having a filter response, the grating coupled to the light source and stabilized so that the filter response is over a range overlapping at least part of the optical spectrum of the source;

a tilted grating tap coupled to the light source and the Bragg grating for tapping a signal representative of the light supplied to the grating and a signal representative of the light reflected or transmitted by the grating; and,

a feedback circuit responsive to the tapped signals for adjusting the wavelength λ of the light source.

12. (new) The optical pulse source of claim 11 wherein the tilted grating tap comprises a PM (polarization maintaining) fiber.

13. (new) The optical pulse source of claim 11 wherein a wavelength response curve represents the optical transfer function of the grating and the wavelength λ of the light source is locked to an edge of the grating wavelength response curve.

14. (new) An optical pulse source to generate RZ pulses at a wavelength λ comprising:

a modulated light source for generating optical pulses of light over an optical spectrum including λ, the source modulated in power and frequency;

a Bragg grating having a filter response, the grating coupled to the light source and stabilized so that the filter response is over a range overlapping at least part of the optical spectrum of the source;

a fused fiber PM coupler coupled to the light source and the Bragg grating for tapping a signal representative of the light supplied to the grating and a signal representative of the light reflected or transmitted by the grating; and,

a feedback circuit responsive to the tapped signals for adjusting the wavelength λ of the light source.

15. (new) The optical pulse source of claim 14 wherein the feedback circuit adjusts the shape of pulses passing through the filter to produce RZ pulses.

16. (new) The optical pulse source of claim 14 wherein the light source comprises a distributed feedback laser.

17. (new) The optical pulse source of claim 14 wherein the Bragg grating is coupled to the source by polarization maintaining optical fiber.

18. (new) The optical pulse source of claim 14 wherein the Bragg grating comprises a fiber Bragg grating stabilized by disposition in a controlled temperature environment.

19. (new) The optical pulse source of claim 14 wherein the Bragg grating is tunable.

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20. (new) The optical pulse source of claim 14 wherein the light source comprises a temperature adjustable distributed feedback laser and the feedback circuit comprises an electronic circuit responsive to the tapped signals for adjusting the temperature of the laser.

21. (new) The optical pulse source of claim 14 wherein a wavelength response curve represents the optical transfer function of the grating and the wavelength λ of the light source is locked to an edge of the grating wavelength response curve.